

## ABSTRACT

Methods, compositions and kits are provided for treating cancer associated with protein tyrosine kinase activity such as chronic myelogenous leukemia. In particular, a treatment method is provided comprising: administering to a patient having chronic myelogenous leukemia and a degree of resistance to imatinib mesylate, a therapeutically effective amount of a DNA methylation inhibitor which mitigates the imatinib mesylate resistance.

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2